

87664

S/137/60/000/010/040/040
A006/A001

Electrochemical Deposition of Co-Tungsten Alloy and its Properties

higher electrolyte temperature a gradual increase of the tungsten percentage in the alloy takes place. The current efficiency increases noticeably. It is established that the dispersing capacity of the electrolyte for the deposition of the cobalt-tungsten alloy exceeds by 10 - 15% that of the Ni-electrolyte. The authors studied the dependence of microhardness of the deposited cobalt-tungsten alloy on various factors of electrolysis. Investigations of the wear resistance of cobalt-tungsten alloy coatings in pair with Ni and in pair with the same alloy showed that it was higher in the latter case than during wearing in pair with Ni. It was stated that the cobalt-tungsten deposit was sufficiently corrosion-resistant in SO₂ and NO₂ atmosphere. The composition of the electrolyte for the deposition of an alloy with 35% tungsten is given. X

N.I.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

KAUGLOVA, Yekaterina Georgiyevna, inzh.; VYACHESLAVOV, Petr Mikhaylovich,
dots., kand. khim. nauk; SMOTKINA, B.R., inzh., retsenzent;
GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M.,
red.; ONISHCHENKO, R.N., red. izd-va; BARDINA, A.A., tekhn. red.

[Control of electroplating baths and coatings] Kontrol' gal'va-
nicheskikh vann i pokrytii. Izd.2., dop. i perer. Moskva,
Mashgis, 1961. 146 p. (Bibliotekha gal'vanotekhnika, no.12)
(MIRA 15:4)

(Electroplating—Equipment and supplies)

FEDOT'YEV, N.P.; VIACHESLAVOV, P.M.; KRUGLOVA, Ye.G.; FONTEYNES, Ye.A.

Technology of eelectrolytic Sn-Cd deposition and its corrosion
resistance in near tropical conditions. Trudy LTI no.53:72-81
'61.

(MIRA 14:3)

(Tin plating)

(Tin-cadium alloys)

(Corrosion-resistant materials)

NIKANDROVA, L. I.; GERASIMOVA, N. I.; IVANOVA, L. V.; KONDRATOVICH, G. A.;
KRUGLOVA, Ye. G., red.; ERLIKH, Ye. Ya., tekhn. red.

[Analysis of electrolytes and solutions for electroplates and
chemical coatings] Analiz elektrolitov i rastvorov; dlia gal'-
vanicheskikh i khimicheskikh pokrytii. Leningrad, Goskhimizdat,
1963. 310 p. (MIRA 16:3)
(Electrolytes--Analysis) (Electroplating)

SEMIKOZOV, G.S.; KRUGLOVA, Ye.G.; KALINKIN, I.P.

Determination of microquantities of copper with lead diethyldithiocarbamate in zinc solutions and electrolytes for galvanization. Izv. vys.ucheb.zav.; khim. i khim.tekh. 7 no.2:194-197 '64.

(MIRA 18:4)

1. Kafedra analiticheskoy khimii Leningradskogo tekhnologicheskogo instituta im. Lensoveta.

KRUKOVA, Ye.I.; GUSEV, L.A., redaktor; VEYNTAUB, A.B., tekhnicheskii redaktor.

[My work as a telegrapher; an account of a senior telegrapher in a district communication office] Moia rabota na telegrafe; rasskaz starshoi telegrafistki raionnoi kontory svyazi. Moskva, Gos. izd-vo lit-ry po voprosam svyazi i radio, 1955. 22 p.
(Telegraphers) (MLRA 9:5)

Ye

The effect of the degree of field fertilization on the mineral composition of the cotton plant. E. K. Kruglova. AG
Sotsial. Sel'sk. Khos. Uzbekistana 1955, No. 5, 28-34.
Referat. Zhur., Biol. 1955, No. 939.—Data are presented of the mineral compn. of leaves, stems, seed pods, seeds, and fibers of cotton plants grown at the Tashkent agricultural station in 1951, without and with various degrees of fertilization. The different plant constituents were ashed, and detas. were made of P, S, Si, Ca, Mg, K, Na, Fe, Al, Mn, B, Cu, and Zn. Richest in minerals were the leaves, followed by the seed pods, stems, seeds, and the fibers. Ca was the most abundant element in the vegetative parts, and K was the most abundant in the fruit bearing parts. Among the microelements Mn predominated in all the plant organs. In the seeds the second most abundant element was Zn, and in the leaves B, which was present in all organs except the fibers. More than 40% of the B of the leaves was in the form of fixed nonmobile organoboric compds. Differences in the degree and type of soil fertilization had no practical effect on the results of the mineral content of the various organs of the cotton plant. There was a slight reduction in the P and K content of plants grown in non-fertilized soil.
 B. S. Levina

KRUGLOVA, E. K.

Microelements in soils of cotton fields in Middle Asia.
 E. K. Kruglova (Central-Asia Polytech. Inst., Tashkent).
Fiziko-khimiya 1956, No. 1, 39-49. — Results are given for
 studies on the content, forms, and transformations of Mn in as
 well as on the content of Cu, Zn, Co, and Ni in the cotton soils.
 With a lowering of the pH to 4.0-4.4 the sol. Mn content in-
 creases in sierozem, meadow, and meadow-bog soils. At pH
 values below 4.0 the sol. of Mn decreases and Fe goes into
 solu. at pH 3.0 in sierozem, meadow soil at 3.8, and meadow-
 bog at 4.2. In sierozem the MnO_2 prevails, 60-93% of the
 total. In the meadow and meadow-bog soils the MnO_2 con-
 tent is 40-70% of the total. Silicates of Mn in sierozem vary
 from 0 to 40% of the total and in the meadow and meadow-
 bog, 20-60%. The total content of Mn in these soils varies
 from 0.06 to 0.13%, decreasing in quantity with depth.
 Data are also given on the content of Cu, Ni, Co, and Zn in
 the soils mentioned, and the quantity of Mn in superphos-
 phate, phosphorite, local rocks, clay, and some earthy ma-
 terial used as fertilizer. J. S. Ioffe —

KRUGLOVA, Ye.K.

Applying boron fertilizers to cotton. Uzb.biol.zhur. no.5:55-61
'59. (MIRA 13:4)

1. Sredneaziatskiy politekhnicheskii institut.
(COTTON--FERTILIZERS AND MANURES) (PLANTS, EFFECT OF BORON ON)

KRUGLOVA, Ya. K.

Molybdenum in soils, cotton plants and irrigation and ground
waters of the Golodnaya Steppe. Pochvovedenie no.6:82-88
Ja '59. (MIRA 12:9)

1. Sredneaziatskiy politekhnicheskiy institut, g.Tashkent.
(Golodnaya Steppe--Minerals in soil)
(Molybdenum)

KRUGLOVA, Ye.K.

Boron content of the Golodnaya Steppe soils, cotton, irrigation and
ground waters. Pochvovedenie no.9:81-87 S '60. (MIRA 13'9)

1. Sredneaziatskiy politekhnicheskiy institut.
(Golodnaya Steppe--Soils--Boron content)

SUCHKOV, S.P.; ZIMINA, N.I., kand. sel'khoz. nauk; LAZAREV, S.P., kand. sel'khoz. nauk; KRUGLOVA, Ya.K., kand. sel'khoz. nauk; BESEDIN, P.N., kand. sel'khoz. nauk, red.; KENZER, A.P., red.; SOROKINA, Z.I., tekhn. red.

[Soils of the Golodnaya Steppe; their agronomic characteristics]
Pochvy Golodnoi Stepi; ikh agronomicheskaja kharakteristika.
[By] S.P.Suchkov i dr. / Tashkent, Redaktsionno-izdatel'skii otdel
UzASKhN. 1961. 173 p. (MIRA 16:1)
(Golodnaya Steppe—Soils)

KRUGLOVA, Ye.K.

Copper and its forms in soils of the Golodnaya Steppe and in
cotton. Pochvovedenie no.5:83-90 My '62. (MIRA 15:6)
(Golodnaya Steppe—Soils—Copper content) (Cotton)

GAYNUDINOVA, F.Kh.; KRUGLOVA, Ye.K.

Copper and its forms in irrigated Fergana Valley soils. Uzb.
khim.zhur. 6 no.6:23-27 '62. (MIRA 16:2)

1. Institut pozhivovedeniya AN UzSSR.
(Fergana--Soil chemistry) (Copper--Analysis)

KRUGLOVA, Ye.K.

Zinc and its forms in the virgin and long-irrigated soils
of the Golodnaya Steppe and in cotton plants, Pochvovedenie
no.7:75-79 J1 '64. (MIRA 17:8)

1. Tashkentskiy politekhnicheskiy institut.

KRUGLOVA, Ye.K.; MUSAILOV, O.B.

Photocolorimetric determination of cobalt in soils and plants using
 β -nitroso- α -naphthol. Uzb. khim. zhur. 8 no.6:11-15 '64. (MIRA 18:4)

1. Tashkentskiy politekhnicheskiy institut.

BRUSKIN, Mikhail Il'ich; KRUGLOVA, Ye.M., red.; TIKHONOVA, Ye.A., tekhn.
red.

[Statistics of the merchant marine] Statistika morskogo transporta. Moskva, Izd-vo "Morskoi transport," 1961. 180 p.
(MIRA 14:10)
(Merchant marine—Statistics)

SHER, Aleksandra Aleksandrovna; VARAKSIN, Nikolay Georgiyevich;
KRUGLOVA, Ye.M., red.; USANOVA, M.B., tekhn. red.

[Wages for sea harbor workers] Oplata truda rabotnikov morskikh
portov. Moskva, Izd-vo "Morskoi transport," 1962. 135 p.
(MIRA 16:2)

(Wages--Longshoremen) (Wages--Cargo handling)

KOSTYUKOV, Aleksandr Aleksandrovich, prof., doktor tekhn. nauk;
KRUGLOVA, Ye.M., red.; LAVRENOVA, N.B., tekhn. red.

[Theory of ship construction] Teoriia korablia. Moskva, Morskoi transport, 1962. 318 p. (MIRA 15:7)
(Naval architecture)

BARAYEV, Viktor Georgiyevich, doktor tekhn. nauk; ERUCHLOVA, Ye.N.,
red.

[World shipping and sea transportation in capitalist
countries; notes for the development of a long-term
program for the expansion of the U.S.S.R. merchant marine]
Mirnoye sudokhodstvo i morskoi transport kapitalistiches-
kikh stran; zametki k razrabotke perspektivnogo plana raz-
vitiia morskogo flota SSSR. Moskva, Izd-vo "Transport,"
1964. 49 p. (MIRA 17:8)

KORYAKIN, Sergey Fedorovich, kand. ekon. nauk, dots.; LEMENYEV, Iosif L'vovich, kand. ekon. nauk, dots.; Irinimal
uchastiye: ELLINSKIY, Yu.F., st. prep.; SHRAMCHENIN,
Ye.A., dots., retsenzent; CHERKASOV-TSIBIZOV, A.A., st.
prepod., retsenzent; MILYUKOV, M.A., st. prepod.,
retsenzent; KOZHAVOV, N.D., kand. ekon. nauk, retsenzent;
KAKAL'SKIY, I.I., kand. ekon. nauk, retsenzent; KADNER,
B.A., inzh., retsenzent; PETRUCHIK, V.A., kand. ekon. nauk,
red.; GUBERMAN R.L., kand. ekon. nauk, red.; RCDIN, Ye.D.,
kand. ekon. nauk, red.; DUBCHAK, V.Kh., inzh., red.;
MARTIROSOV, A.Yu., inzh., red.; PLYUSHKIN, V.A., inzh.,
red.; BELOV, M.I., doktor geogr. nauk, red.; SINITSYN, M.T.,
inzh., red.; KOLESNIKOV, V.G., kand. tekhn. nauk, red.;
ZAMAKHOVSKIYA, A.G., kand. ekon. nauk, red.; KUZ'MIN, T.P.,
inzh., red.; NEMCHIKOV, V.I., kand. tekhn. nauk, red.;
GEKHTEARG, Ye.A., inzh., red.; FILIPPOV, K.D., red.;
KRUGLOVA, Yu.I., red.

[Economics of the merchant marine] Ekonomika morskogo trans-
porta. Izd.2., perer. i dop. Moskva, Transport, 1964.
527 p. (MIRA 18:1)

VISHNEVOLSKIY, S.A.; KORMISTROV, R.M.; ZABELIN, V.G.; KUTCHENKO,
Ye.M., red.

[Chartering of merchant ships] Frakht na morskikh sudov.
Moskva, Transport, 1964. 185 p. (IRA 18:2)

TSYRKIN, Mikhail Isaakovich; KRUGLOVA, Ye.M., red.

[Automatic regulation and control of marine diesel engines]
Avtomaticheskoe regulirovanie i upravlenie sudovymi dizel'-
nymi ustanovkami. Moskva, Transport, 1964. 256 p.
(MIRA 18:3)

BAKAYEV, Viktor Georgiyevich, doktor tekhn. nauk; IODIN, Ye.D.,
kand. ekon. nauk, nauchn. red.; KRUGLOVA, Ye.M., red.

[Operation of the merchant marine] Eksploatatsia morskogo flota. Moskva, Transport, 1965. 559 p.
(MIRA 18:12)

1. Ministr Morskogo flota SSSR (for Bakayev).

BUNIN, K.V., prof.; BURASHNIKOVA, N.M.; VERISOVA, M.A.; GUTOP, O.G.;
KRUGLOVA, Ye.V.; LAGOVSKAYA, N.A.; PISTOVA, H.Y.

Some complications after smallpox vaccination. Sov. med. 25 no.5:
73-80 My '61. (MIRA 14:6)

1. Iz Infektsionnoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy
vrach - zasluzhennyy vrach RSFSR N.G.Zaleskver, nauchnyy rukovoditel' -
prof. K.V.Bunin).

(SMALLPOX)

KRUGLOVA, Ye. V. A-1

Be

Thermal dissociation of higher sulphides of tin.
J. I. Gerasimov, Ye. V. Kruglova, and N. D. Rokh-
lov (J. Gen. Chem. USSR, 1957, 7, 1620-1624).—
SnS₂ dissociates at >600° to form SnS, which gives
SnS₂ at 700° and SnS at 800°. The so-called inter-
mediate sulphides are in reality solid solutions of the
above three sulphides. R. T.

ASH-LEA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBOLS	TO SYMBOLS
647285 21	647285 21

L 02298-67 CWT(m)/T FDN/DJ/GD

ACC NR: AT6015201 (A, N)

SOURCE CODE: UR/0000/66/000/000/0099/0103

AUTHOR: Starikova, L. V.; Bleyes, G. S.; Kruglova, Ye. T.

ORG: none

61
B+1

TITLE: Method for evaluating the thermo-oxidative stability of aviation oils at elevated temperatures

SOURCE: Metody otsenki eksploatatsionnykh svoystv reaktivnykh topliv i smazochnykh materialov (Methods for the performance evaluation of jet propellants and lubricants). Moscow, Izd-vo Mashinostroyeniye, 1966, 99-103

TOPIC TAGS: lubricating oil, lubricant property, lubricant viscosity, heat resistance, vaporization, high temperature oxidation, aircraft lubricant

ABSTRACT: A laboratory method for evaluating the performance properties of petroleum oils at elevated temperatures was developed and examined. The method is an adaptation of VTI GOST 981-55, wherein conditions for oxidizing the oil were changed to make the test applicable to high temperature testing. Oxidations were run in the apparatus shown in Fig. 2 under temperatures controlled by thermostat shown in Fig. 1.

Card 1/4

UDC: 662.753.32:629.13.001.4

02298-67

ACC NR: AT6015201

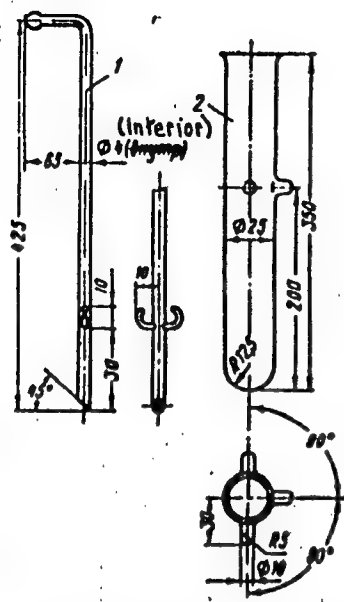


Fig. 1. Diagram of air electric thermostat:
1.--mantle, 2--agitator shaft, 3--cross
pieces for mounting 4, 4--rotating cylinder,
5--agitator blades, 6--electric motor,
7--cover, 8--apparatus for oxidations,
9--electric heater, 10--thermocouple,
11--mercury thermometer.

Cerd 2 A

L 02298-57

ACC NR: AT6015201

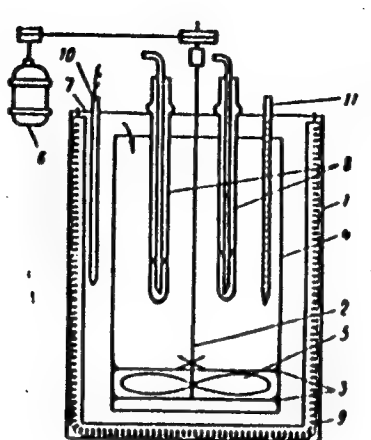


Fig. 2. Apparatus for oxidizing oil:
1--tube for feeding air to oxidize the oil,
2--reaction vessel.

Card 3/4

02298-67

ACC NR: AT6015201

Determinations were made of volatility, change in viscosity, benzene-insoluble residues, acid number and metal corrosion as indices of resistance of the oil to thermal oxidation. Satisfactory reproducibility among the values of these indices was obtained in the tests run. Orig. art. has: 1 table and 2 figures.

SUB CODE: 11/ SUBM DATE: 10Dec65

Card 4 / 4

vmb

KRUGLOVA, E.V., LUKASHEVICH-DUVANOVA, Yu.T.

"Sulfides in Steel Deoxidized by Aluminum,"
lecture given at the Fourth Conference on Steelmaking, AA. Baikov Institute of
Metallurgy, Moscow, July 1-6, 1957

KRUGLOVA, YE. V.

НЕМЕТАЛЛИЧЕСКИЕ ВКЛЮЧЕНИЯ СТАЛИ

С.М.Павлов	Описание окисной стали от трещино-
Г.Ф.Иванов	вых включений
С.Е.Васильев	Влияние метода раскисления стали в
А.М.Сидоров	вакуумной печи на процесс ее де-
	аэрации.
Д.М.Врун	Влияние окислов на обескисление пе-
А.М.Иванов	ри в структуре легкой стали.
С.Т.Рябенко	Описание неметаллических включений
Д.М.Туров	в вакуумированной раскисленной
В.М.Васильев	стали.
К.С.Прохоров	
В.А.Уралов	Влияние на микрокарбидный стро-
Ю.Т.Луканин	еи, содержащий титан.
Д.М.Врун	
Ю.Т.Луканин	Влияние на микрокарбидный стро-
Д.М.Врун	еи, содержащий окислы и титан.
С.Е.Васильев	
В.М.Васильев	
А.М.Васильев	Описание раскисления в вакуум-
	ной электропечи.
С.Г.Васильев	Разработка в вакуумной печи техно-
П.М.Васильев	логического процесса вакуумизации
	стали.
В.П.Корова	Влияние типа раскисления раскис-
П.В.Арно	ной стали.

report submitted for the 3th Physical Chemical
Conference on Steel Production, Moscow-- 30 Jan 1959.

KRUGLOVA, Z.D.

Work practices in equatorial-dipole sounding. Razved. i prom.
gnofiz. no.29:59-61 '59. (MIRA 13:1)
(Electric prospecting)

BULATOVA, Z.I.; VOYTSEL', Z.A.; GORBOVETS, A.N.; IVANOVA, Ye.A.; KAZ'MINA, T.A.; KISEL'MAN, E.N.; KLIMKO, S.A.; KLIMOVA, I.G.; KOZYREVA, V.F.; KORNEVA, F.R.; KOSTITSINA, R.P.; KHUGLOVA, Z.M.; STRIZHOVA, A.I.; MAKOVA, L.G.; TARASOVA, A.S.; USHAKOVA, M.V.; FILIPPOVA, Ye.A., ved.red.; TROFIMOV, A.V., tekhn.red.

[Mesozoic and Cenozoic stratigraphy of the West Siberian Lowland]
Stratigrafiia mezozoiia i kainozoiia Zapadno-Sibirskoi nizmennosti.
Moskva, Gos.nauchno-tekhn.isd-vo nef. i gorno-toplivnoi lit-ry,
1957. 147 p. (MIRA 12:2)

1. Gosudarstvennyy soyuznyy Zapadno-Sibirskiy nefterasvedochnyy
trest.

(Siberia, Western--Geology, Stratigraphic)

KRUGLYAK, Yu.A.; UTMEN, D.R.[Whitman, D.R.]; SHUSTOROVICH, Ye.M.,
otv. red.

[Tables of quantum chemistry integrals] Tablitsy integralov kvantovoi khimii. Moskva, Vychislitel'nyi tsentr.
Vol.1. 1963. 439 p. (MIRA 18:5)

1. Khar'kovskiy gosudarstvennyy universitet, Kafedra fizicheskoy khimii Instituta fizicheskoy khimii AN Ukr.SSR (for Kruglyak).

YANILIN, V.I.; KRUGLYAK, Yu.A.; TOBYGO, K.B.; CHIRAKOV, V.V.

Correlation between adjacent amino acid radicals in proteins.
Dokl. AN SSSR 160 no.5:1191-1193 F '65.

(MIRA 18:2)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN UkrSSR.
Submitted June 4, 1964.

KRUGLOV, Yu. V., Cand Biol Sci (diss) -- "The role of denitrifying bacteria of the genus *Pseudomonas fluorescens* in the root feeding of plants". Moscow, 1960. 15 pp (Acad Sci USSR, Inst of Microbiol), 250 copies (KL, No 15, 1960, 133)

KRUGLOV, Yu.V.

Role of micro-organisms in plant nutrition. Trudy Vses. inst. sel'khoz.
mikrobiol. 16:31-38 '60. (MIRA 13:9)
(Rhizosphere microbiology) (Bacteria, Denitrifying)

SAMOYLOV, I.I.; KOZLOVA, N.V.; RUSINOVA, I.P.; KRUGLOV, Yu.V.

Effect of bacterisation on the activity of organomineral mixtures.
Trudy Vses. inst. sel'khoz. mikrobiol. 16:116-122 '60. (MIRA 13:9)
(Fertilizers and manures) (Soil inoculation).

SANOYLOV, I.I.; KOZLOVA, N.V.; RUSINOVA, I.P.; KRUGLOV, Yu.V.

Significance of different amounts of lime and the duration of its
interaction with peat in estimating the biological activity of
lime and peat-lime fertilizers. Trudy Vses. inst. sel'khoz. mikrobiol.
16:123-135 '60. (MIRA 13:9)

(Liming of soils)

(Peat)

AYUBOV, K.H.; DZH.

Using gas chromatography and molecular spectroscopy in the
quantitative analysis of naphthalene hydrocarbons C₁₀ - C₁₄.

Khim. i tekhn. topl. i mater. 1975, 9:53-57, 3 figs, 1 tab, 1975

1. Nauchno-issledovatel'skiy institut neftekhimii i khim. prirodozv. i

LETOPI, ...

KRUGLOV, L.M.: "Results of studying the state of health of the population in Turkov and Khodorev Rayons, Drogobych Oblast". L'vov, 1955. L'vov State Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences).

SO: Knizhnaya letopis' No 44, 27 October 1955. Moscow.

KRUGLOV, Z.M., kand.med.nauk; BURIKHIN, T.N., dotsent

Twenty years of the Soviet public health service in the western provinces of the Ukraine. Vrach.delo no.9:967-969 3 '59.

(MIRA 13:2)

1. Kafedra organizatsii zdavookhraneniya (zaveduyushchiy - dotsent S.Z. Tkachenko) L'vovskogo meditsinskogo instituta.
(UKRAINE, WESTERN--PUBLIC HEALTH)

KRUGLOVENKO, V.I.

Vibrators for unloading sugar beets from freight cars. Sakh.prom.
35 no.7:45-46 JI '61. (MIRA 14:7)

1. Kurskiy filial Giproсахара.
(Sugar beets--Transportation) (Vibrators)

Lengthy review is presented of the book, by M. V. Shmulyan and Q. V. Kruglovoy, entitled, "Industrial Capacities of Mechanical Plants. Calculation and Rational Utilization of such Industrial Capacities in Machine Construction Plants," published in Kiev in 1964.

NEMIROVSKAYA, V.N.; KRUGLOVYKH, V.V.

Third coordinating conference on compiling lithopaleogeographical
maps of Siberia. Mat. po geol. i pol.iskop.Kras.kraia no.3:261-263
'62. (MIRA 17:2)

KRUGLUSHIN, H. YA.

LINDE, V.V., professor; KOKORIN, V.V.; KRUGLUSHIN, A. Ya.

Qualifications of an engineer technologist. Tekst.prom. 14 no.8:
11-13 Ag '54. (MLRA 7:10)

1. Direktor Vsesoyuznogo zaochnogo instituta tekstil'noy promyshlennosti (for Kokorin).
(Textile industry)

KRUOLUSHIN, A. U. a.

Commission of the factory committee gives help to innovators. Sov.
profsoiuzy 3 no.8:49-50 Ag'55. (MLRA 8:10)
(Riga--Textile industry)

KRUGLUSHIN, A.Ya.

Standardization of the means of mechanization. Tekst. prem. 19
no.6:78 Jo '59. (MIRA 12:9)

1.Chlen Nauchno-tehnicheskogo otdela legkoy promyshlennosti.
(Textile industry--Equipment and supplies)

L 44305-66 EWT(-)/T/EWP(1)/ETI LJP(c) JD/JG

ACC NR: AP6019841

SOURCE CODE: UR/0370/66/000/001/0190/0192

AUTHOR: Amonenko, V. M. (Khar'kov); Kruglykh, A. A. (Khar'kov); Pavlov, V. S. (Khar'kov); Tikhinskiy, G. F. (Khar'kov)

ORG: none

TITLE: Evaporation rate of beryllium during dissociation of cerium beryllide ⁵⁷ ^B

SOURCE: AN SSSR. Izvestiya. Metally, no. 1, 1966, 190-192

TOPIC TAGS: beryllium, vacuum sublimation, cerium compound, vapor pressure

ABSTRACT: The article presents the results of an investigation of the evaporation rate of Be during the thermal dissociation of the intermetallic compound $CeBe_{13}$, as well as of the effect of the addition of a small amount (0.4 wt. %) of Ce on the evaporability of Be. $CeBe_{13}$ was obtained by the vacuum heating of a stoichiometric mixture of the powders of Ce and Be at 1150°C for 3 hr, while the Be-0.4% Ce alloy was obtained by direct vacuum melting of the metals. The sublimation rates of the Be-0.4% Ce alloy and of the products of dissociation of $CeBe_{13}$ were determined by the method of evaporation from a cylindrical tantalum crucible with a residual gas pressure of $\leq 2 \cdot 10^{-6}$ mm Hg in the vacuum chamber. The temperature was measured with

Card 1/3

UDC: 669.725.4

ACC NR: AP6019841

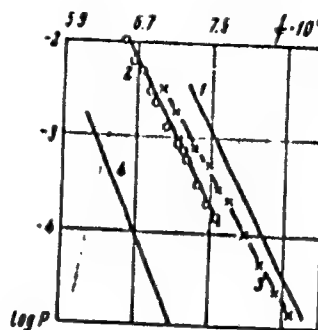
the aid of an optical pyrometer correct to $\pm 5\%$. Weighing of the crucibles was carried out correct to ± 0.0001 g by the continuous method on scales without violating the vacuum. The sublimation rate of Be with 0.4% Ce was measured in the temperature range 920-1160°C; for this temperature range the saturated vapor pressure of Be over the Be-0.4% Ce alloy is described by the equation: $\log P = 9.35 - 17,000/T$. As for the sublimation rates of the components of the intermetallic compound CeBe_{13} , during its thermal dissociation in the temperature range 1050-1250°C, the roentgenograms of the condensates gathered following evaporation of the compound at 1100 and 1250°C lack the lines of Ce and CeBe_{13} ; therefore, appreciable dissociation occurs above 1050°C and the entire sublimated matter may be referred to Be. The saturated vapor pressure of Be over the CeBe_{13} compound during the latter's thermal dissociation may be described by the equation: $\log P = 10.475 - 18,990/T$. The findings were utilized to plot curves of the saturated vapor pressure of the compounds and their components (Fig. 1). Orig. art. has: 1 figures, 2 tables, 2 formulas.

Card 2/3

• ACC NR: AP6019841

Fig. 1. Vapor pressure (P , mm Hg) of Be as a function of temperature for:

- 1 - pure Be; 2 - over the compound CeBe_{13} during its thermal dissociation;
- 3 - over the alloy Be-0.4% Co; 4 - pure Ce



SUB CODE: //, 13, 20 SUBM DATE: 25Jul64/ ORIG REF: 006/ OTH REF: 001

Card 3/3 OLR

L 44078-66 EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) JD/JG
ACC NR: AP6030804 SOURCE CODE: UR/0185/66/011/009/1023/1025

AUTHOR: Amonenko, V. M.; Pavlov, V. S.; Kruglykh, A. A.

ORG: Physicotechnical Institute, Academy of Sciences UkrSSR, Kharkov (Fizyko-
tekhnichnyy instytut, AN UkrSSR)

TITLE: Refining lanthanum by combined zone melting and electrotransfer process

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 9, 1966, 1023-1025

TOPIC TAGS: ~~lanthanum refining~~, lanthanum zone refining, ~~lanthanum electrotransfer~~
~~refining~~ electron beam melting

ABSTRACT: The feasibility of refining lanthanum by combined zone melting and electrotransfer process has been investigated. Specimens, 8 mm in diameter x 120 mm long, were prepared from 99.5%-pure lanthanum melted in a vacuum of $3 \cdot 10^{-6}$ mm Hg. The specimens were subjected to zone refining in vacuum with electron-beam heating. Simultaneously, direct current with a density of 4.4 a/mm^2 was passed through the specimens for 70 or 180 hr, depending on the number of passes (5 or 10). It was found that the utmost purification was achieved with 5 passes, after which the impurities content was reduced as follows: oxygen from 0.080% to 0.032%, nitrogen from 0.0047% to 0.0040%, hydrogen from 0.0013% to an undetectable quantity, and carbon from 0.14% to 0.080%. The microhardness dropped from 50 to 30 kg/mm². Orig. art. has: 3 figures and 1 table

SUB CODE: 11, 13/ SUBM DATE: 20Dec65/ ORIG REF: 003/ OTH REF: 002/ ATD PRESS:
Card 1/1 *gd* 5077 [TD]

KRUGLYAK, B., inzhener.

Improvement in the manufacture of elevator pits. *Mak.-elev.*
prom. 23 no.2:29 F '57. (MLRA 10:5)

1. Ivanteyevskiy stroitel'nyy kombinat.
(Grain elevators)

KHODZHAYEV, K.Kh.; KRUGLYAK, B.A.

New machines for unloading cement from railroad cars. Zhel.
dor.transp. 43 no.4:70-73 Ap '61. (MIRA 14:3)

1. Nachal'nik gruzovoy sluzhby Tashkentskoy dorogi (for Khodzhayev).
2. Starshiy inzhener sluzhby Tashkentskoy dorogi.
(Cement—Transportation) (Loading and unloading)

KRUGLYAK, G.; SHAMRO, V.

More attention should be given to the mechanization of labor-consuming processes in technical maintenance work. Avt.transp. 32 no.9:14-15
S '54. (MLRA 7:11)

1. Avtobaza No. 1 Moskovskogo metrostroya.
(Automobiles--Maintenance)

KRUGLYAK, G.; SHAMRO, V.

Using the unit method of repairing automobiles in automobile
transport organisations. Avt. transp. 33 no.5:19-20 Ky '55.
(Motor trucks--Repairing) (MIRA 8:8)

KUZNETSOV, Ye.; KRUGLYAK, G.

Using new TO-1 maintenance regulations. Avt. transp. 36 no.8:14-16
Ag '58. (MIRA 11:9)
(Automobiles--Maintenance and repair)

KRUGLYAK, G.; KUZNETSOV, Ye.; PLESHAKOVA, T.

Using niger oil in lubricating motortruck chassis. Avt.
transp. 37 no.11:26-27 M '59. (MIRA 13:2)
(Motortrucks--Lubrication)

KRUGLYAK, I., zootekhnik

Beef and dairy farms in the U.S.A. Nauka i pered. op v
sel'khoz 9 no.5:75-78 My '59. (MIRA 12:8)
(United States--Dairying) (United States--Beef cattle)

KRUOLYAK, I.I.

Visiting with an English farmer. Nauka i zhizn' 23 no.2:54-56
F '56. (MLRA 9:5)

1. Chlen kollegii Ministerstva sovkhozov SSSR.
(Great Britain--Agriculture)

KRUOLYAK, I., inzhener.

Freezing of capillary pipes in home compressor iceboxes. Khol.tekh.
32 no.3:59-61 J1 - S '55. (MLRA 9:1)
(Refrigerators and refrigerating machinery) (Pipe-fittings--Ammonia)

KRUGLYAK, I., inzhener.

Temperature control device and temperature range in ZIS-MOSKVA
electric refrigerators. Khel.tekh. 32 no.4:53-55 O-D '55.
(Refrigeration and refrigerating machinery) (MIRA 9:4)

KRUOLYAK, I., inzhener.

Detecting faulty performance in the electrical equipment of a refrigerator "ZIS-Moskva". Khol.tekh.33 no.1:70-72 Ja Mr '56.
(Refrigeration and refrigerating machinery) (MIRA 9:7)

AUTHOR: Kruglyak, I., Engineer.

66-1-21/26

TITLE: Re-filling of sealed refrigeration units during repairs,
(Zapolneniye germeticheskikh kholodil'nykh agregatov
pri remonte).

PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering),
1957, No.1, pp.69-71 (U.S.S.R.)

ABSTRACT: Detailed information is given on the process of re-
filling the units of domestic refrigerators with the cooling
agent of 100 to 250 kcal/hr capacity after repair, giving
data relating to several models of Russian built refrigerators.
There are three figures.

AVAILABLE:

Card 1/1

KHUGLYAK, L., inzh.

New modifications of the "ZIL-Moskva" refrigerating unit. Khol. tekhn.
35 no.4:68-69 JI-Ag '58. (MIRA 11:10)
(Refrigeration and refrigerating machinery)

KRUOLYAK, I., insh.

Connecting autotransformer into the thermoregulator circuit of the
"Zil-Moskva and "Dnepr" refrigerators. Khol.tekh. 35 no.5:59-60
S-O '58. (MIRA 11:11)
(Refrigerators) (Electric transformers)

KRUGLYAK, I., inzh.

How to equip "Zil-Moskva" and "Dnepr" refrigerators with key locking
devices. Khol.tekh. 35 no.5:60-61 S-O '58. (MIRA 11:11)
(Moscow--Refrigerators)

KRUGLYAK, Iosif Naumovich; SVIDERSKIY, Georgiy Danilovich; BERLIANT,
I.Ya., red.; ZAYTSEVA, L.A., tekhn.red.

[Maintenance and repair of refrigerators] Remont domashnikh
kholodil'nikov, Moskva, Vses.kooper.isd-vo, 1959. 238 p.
(MIRA 12:8)

(Refrigerators--Maintenance and repair)

14(1)

SOV/66-59-2-19/31

AUTHOR: Kruglyak, I., Engineer

TITLE: Adjustment of the Thermostat in Refrigerators "ZIL-Moskva" and "Dnepr" (Regulirovaniye termostata v kholodil'nikakh "ZIL-Moskva" i "Dnepr")

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 2, pp 61-62 (USSR)

ABSTRACT: The article describes the procedure of adjusting the thermostat on the refrigerators "Zil-Moskva" and "Dnepr" to the desired temperature of -7° to -8°C on the lower shelf of the evaporator. There is one schematic diagram.

Card 1/1

KRUGLYAK, Iosif Naumovich; FIL'CHENKOV, Nikolay Arsen'yevich; GOLOVCHENKO,
Konstantin Sergeyevich; LIKHAREVA, N.V., inzh., retsenzent; YEVSTAF'YE-
VA, N.P., red.; EL'KIND, V.D., tekhn. red.

[Compressor refrigerators for household use] Domashnie kompressionnye
kholodil'niki. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1961. 166 p. (MIRA 14:12)

(Refrigerators)

KRUGLYAK, I.N.; SVIDERSKIY, G.D.; SHELYUTTO, Ye.P., red.;
KHARITONOVA, L.I., tekhn. red.

[Repair of household refrigerators] Remont domashnikh kholodil'nikov. Izd.2., perer. i dop. Moskva, Gosmestpromizdat, 1961. 279 p. (MIRA 15:12)
(Refrigerators—Maintenance and repair)

· KRUGLYAK, I.N.

Temperature conditions of household refrigerator operations. Khol.
tekh. 38 no. 1:57-58 Ja-F '61. (MIRA 14:4)
(Refrigerators)

KRUGLYAK, I.N., inzh.

Performance of the electric motors of home refrigerators under
conditions of increased and reduced voltage. Khol.tekh. 39
no.2:45-48 Mr-Ap '62. (MIRA 15:4)
- (Refrigerators) (Electric motors--Testing)

KRUGLYAK, I.N.; FIL'CHENKOV, N.A.; GOLOVCHENKO, K.S.; VEYNBERG, B.S.,
kand. tekhn. nauk, retsenzent; KUBAREV, V.I., inzh., red.

[Domestic compressor-type refrigerators] Domashnie kompres-
sionnye kholodil'niki. Izd.2. Moskva, Izd-vo "Mashino-
stroenie," 1964. 206 p. (MIRA 17:8)

KRUGLYAK, I.S. [Kruhliak, I.S.], master po remontu gidrosistem

Pay more attention to the repair of hydraulic equipment.
Mekh. sil'. hosp. 12 no.12:14 D '61. (MIRA 17:1)

1. Tarashchanskoye rayonnoye otdeleniye "Sil'gosptekhniki".

KOTEL'NIKOV, V.K.; KHRISTOFOROV, D.G.; FREZEROV, G.V., prof.,
retsenzent; KRUGLYAK, L.A., inzh., red.; SEMENCHENKO,
V.A., red.izd-va; MAKAROVA, L.A., tekhn. red.

[Attachments for the manufacture of metal-cutting tools]
Prisposobleniia dlia proizvodstva rozhushchikh instrumentov.
Moskva, Mashgiz, 1963. 189 p. (MIRA 17:3)

KHUGLYAK, L.A.

Standard technical operations in machining stepped shafts. Stan.
1 instr. 27 no. 10:14-19 0 '56. (MLRA 9:12)
(Shafts and shafting)

AUTHOR: Kruglyak, L.A. 593
TITLE: Advanced Production Processes for the manufacture of Spur Gears.
(Peredovyye Tekhnologicheskiye Protsessy Obrabotki Tsilindrich-
eskikh Zubchatykh Koles).
PERIODICAL: "Stanki i Instrument" (Machine Tools and Cutting Tools, No.3,
1957, pp.16-20. U.S.S.R.).
ABSTRACT: Soviet and foreign processes and machinery are compared at each
stage of the production process. Among Soviet equipment, a
special deburring and chamfering fixture is shown where a
conical endmill follows the tooth contour at each wheel face.
Investigations carried out by ZIL and the Machine Tool Plant
Imeni S. Ordzhonikidze (Stankozavod Imeni S. Ordzhonikidze) have
established that the shaving of gears made of case-hardened steel
should be carried out after case-hardening and annealing. Class
2 precision can thus be obtained without grinding. A gear
grinding machine, model 5832 (made by the "Komsomolets" Plant)
operates by the generating method but has a worm shaped grinding
wheel.
There are 7 references, including 1 Soviet.
There are 16 illustrations, including 6 photographs.

Card 1/1

Graduate for Mechanics (Cont.)
 Turn tables
 Inventing devices
 Other devices
 Other devices
 Kinematic adjustment of metal-cutting machine tools (Frenkel, A.I.,
 Doctor of Technical Sciences; and Zhelezniy, Yu.A., Candidate of
 Technical Sciences)
 General data on kinematic adjustment
 General data on kinematic adjustment

ANTOSHIN, YE V

63
(S)

NOTES ON THE CONTRIBUTORS

1567/1568

Spetsializirovannaya tekhnicheskaya literatura
1. *Pl. i tekhnologiya razvitiya* (Sbornik po mekhanike i tekhnicheskoye stroitel'stvo v dve tomov, Vol. 2: Tekhnologiya i Organizatsiya) Moscow, Mashin, 1964. VI, 1999 p. 40,000 copies printed.

Shaw, M.: *U.S. Engineer*, Engineer; M.: E.O. Poplin, Engineer; Tech. M.: T.J. Simmons, M.: Sot; T.J. Simmons, Engineer; A.P. Vladimirov, Chief of Technical Sciences, and S.A. Pavlov, Chief of Technical Sciences; Managing M.: For Reference Literature (subject): V.L. Krylov, Engineer.

REMARKS: This contract is intended for personal responsibility for repairs and maintenance operations in a machine-manufacturing plant.

SOURCES: The handbook contains information pertinent to the organization of repair and maintenance operations, designation of maintenance work, and planning of maintenance. Information on scientific research organizations and their participation in preparation of this volume is included in the overview of the book (pp.7-9). There are no references. Basic topics covered include recommendations and setting of parts in maintenance (working), serial-ordering, checking parts by drawing, maintenance leveling (leveling in maintenance work) power equipment and tools, providing basic bench and assembly work; maintenance of power equipment and tools; maintenance of foundations.

Methods of Improving the Kinematic Precision of screw- and gear-setting machines (Arthropolykh, L.A., Engineer, Moscow, U.S.S.R., Engineer, and Livshits, G.A., Candidate of Technical Sciences)

Direct increase of provision of kinematic chain links
Error compensation in kinematic chains
Improving precision characteristics of medium tools by
changing their kinematic parameters
Publication of errors in kinematic chains

technology of manufacturing parts for metal-cutting machines
analyzed. J.-L. Bouchon

- **Working of shaft and spindles**
- **Manufacture of lead screws**
- **Working of gears**
- **Working of worm gears and worm**
- **Working of pulleys and flywheels**
- **Manufacture of springs**

Page 8/26

品品 品品 品品品品品品

KHRISTICH, Z.D., dots., kand. tekhn. nauk; KRUGLYAK, L.A., inzh.,
retsenzent; KUNIN, P.A., inzh., red.

[Automation of the manufacture of metal-cutting tools]
Avtomatizatsiia instrumental'nogo proizvodstva. Moskva,
Mashinostroenie, 1964. 215 p. (MIRA 17:10)

BEZUGLIY, V.D.; ALEKSEYEVA, T.A.; KRUGLIYAK, L.P.

Polarography of N-substituted acrylamides and methacrylamides.
Ukr.khim.zhur. 31 no.5:500-505 '65.

(MIRA 18:12)

1. Khar'kovskiy Vsesoyuznyy nauchno-issledovatel'skiy institut
monokristallov. Submitted July 26, 1963.

BEZUGLYY, V.D.; ALEKSEYEVA, T.A.; DMITRIYEVSKAYA, L.I.; CHERNOBAY, A.V.;
KRUGLYAK, L.P.

Application of the polarographic method for studying the
kinetics of polymerization of 4-vinylbiphenyl and its
derivatives and their copolymerization with styrene.

Vysokom. soed. 6 no.1:125-130 Ja'64.

(MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov.

GRIGOR'YEVA, N.Ye.; KRUGLYAK, L.P.; SHCHERBAKOVA, L.I.

Absorption spectra and structure of glutaconaldehyde dianils.
Zhur.ob.khim. 31 no.8:2599-2604 Ag '61. (MIRA 14:8)

1. Khar'kovskiy gosudarstvennyy universitet.
(Glutaconaldehyde) (Amines--Spectra)

ALEKSEYEVA, T.A.; KRUOLYAK, L.P.; BEZUGLIY, V.D.

Polarographic determination of styrene in polystyrene in the
form of pseudonitrosite. Zav. lab. 29 no.6:657-659 '63.
(MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov.
(Styrene) (Polarography)

KRUGLYAK, M.I.

Practical exercises in psychology. Vop. psikhol. 8 no.4:143-148
Jl-Ag '62. (MIRA 16:1)

1. Pedagogicheskiy institut, Neshin.
(Psychology—Study and teaching)

KRUGLYAK, M.I.

Formation of concepts in the grade 5-6 students. Vop. psikhol. 10
no.6:111-126 N-D '64. (MIRA 18:2)

1. Mezhtinskiy pedagogicheskiy institut.

ALEKSANDROV, P.A.; DOLZHENKOV, F.Ye.; VORONTSOV, N.M.; BAT', Yu. I;
TSUKANOV, G.E.; SAZONENKO, V.P.; CHEPELEV, P.M.; KRUGLYAK, P.P.

Working out the grooving of rolls and auxillary equipment for
the rolling of Z-shaped pile planks. Trudy Ukr. nauch.-issl.
inst. met. no.6:133-156 '60. (MIRA 14:3)
(Rolls(Iron mills))(Rolling(Metalwork))

KRUGLYAK, S., master sporta

With a spark of creativity. Kryl. rod. 15 no.7:25 J1 '64.

(MIRA 18:1)

1. Instruktor-aviamodelist L'vovskogo aviasportkluba.

EMANUEL', N.M.; VERMEL', Ye.M.; RAPOPORT, I.A.; KRUGLYAK, S.A.; DRONCVA, L.M.;
OSTROVSKAYA, L.A.

Antieoplastic properties of powerful chemical mutagens (nitrosourea
derivatives). Dokl. AN SSSR 163 no.2:483-485 J1 '65. (MIRA 18:7)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN
SSSR (for Emanuel').

SADOVNIKOVA, I.P.; YEROKHIN, V.N.; KRUGLYAK, S.A.; VERMEL', Ye.M.;
EMANUEL', N.M.

Use of kinetic parameters in the evaluation of the
antineoplastic activity of chemical compounds in an
experiment. Vop.onk. 11 no.11:63-68 '65.

(MIRA 19:1)
1. Iz otdela khimicheskikh i biologicheskikh protsessov (zav. -
chlen-korrespondent AN SSSR N.M.Emanuel') Instituta khimicheskoy
fiziki AN SSSR (direktor - akademik N.N.Semenov).

VERHEL', Ye.M. (Moskva, V-261, ul. Panferova, 1, kv.40 ; KRUGLYAK, S.A.
(Moskva, Sushchevskiy val, 14/42, korp.2, kv.36)

Antineoplastic activity of gossypol in experiment on transplanted
tumors. Vop. onk. 9 no.12:39-43 '63. (MIRA 17:12)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta lekarstven-
nykh i aromaticeskikh rasteniy (direktor - P.T. Kondratenko).

VERHEL', Ye.M. (Moskva, V-261, ul. Panferova, 81, kv. 20), KRUGLYAK, S.A.
(Moskva, Gushchevskiy val, 14/42, korp. 2, kv. 36)

Antineoplastic activity of some alkaloids. Vop. onk. 8
no. 9:9-17 '62. (MIRA 17:6)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo Instituta
lekarnstvennykh i aromatischeskikh rasteniy (VILAR).

KRUGLYAK, S.A.

Representations of (p, p) groups over a field with the
characteristic p . Dokl. AN SSSR 153 no.6:1253-1256 D '63.
(MIRA 17:1)

1. Institut matematiki AN UkrSSR. Predstavleno akademikom
A.I. Mal'tsevyam.

PSHENITSYN, V.; KRUGLYAK, S.A., nauchnyy redaktor; TYUTYUNIK, M.S., redaktor;
PYATAKOVA, N.D., tekhnicheskiiy redaktor

[Statements of Sebyakov workers on reducing the time required to
build and equip cement factories] Slovo sebriskovtsev o szhatykh
srokakh stroitel'stva i osvoeniia tsementnykh zavodov. Moskva,
Gos.izd-vo lit-ry po stroit.materialam, 1957. 121 p. (MIRA 10:8)
(Cement plants)

MURASHEV, V.I., doktor tekhn.nauk, prof.; LUKASHKIN, N.I., laureat
Stalinskoy premii; NEKRASOV, K.D., kund.tekhn.nauk;
KHUGOLYAK, S.I., inzh.

New designs of foundations for blast furnaces. Stroil.prom.
27 no.10:1-9 0 '49. (MIRA 13:2)
(Blast furnaces) (Foundations)

1. KRUGLYAK, S. L.
2. USSR (600)
4. Cement Industries
7. Raising the output of mills by increasing the R.P.M.
TSement No. 2 (1952) Tauzskiy Tsementnyy Zavod
9. Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

AKUGLYAK, S.L.,

TYUTYUNIK, M.S., redaktor; AKUGLYAK, S.L., nauchnyy redaktor;
LYUDKOVSKAYA, M.I., tekhnicheskij redaktor.

[More cement for the Soviet homeland; work experience of the
Georgian Stalin Cement Plant] Bol'she tsementa Sovetskoi
rodine. Iz opyta raboty Gruzinskogo tsementnogo zavoda imeni
I.V. Stalina. Moskva, Gos. izd-vo lit-ry po stroitel'nym
materialam, 1954. 91 p. (MLRA 7:12)
(Cement)

KRUGLYAK, V.A., elektromekhanik

Improve the circuit of the passive set of the KSS-20/30 switchboard.
Avtom.-telem. 1 svyaz' 2 no.12:20 D '58. (MIRA 11:12)

1.Osnovnyanskaya distanttsiya signalizatsii svyazi Yuzhnoy deregi.
(Telephone switchboards)